

## **Autologous Retinal Pigment Epithelium and Choroid Transplantation for Exudative ARMD with 180° Peripheral Retinotomy**

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### **Advantages:**

Autologous Retinal Pigment Epithelium (RPE) and choroid transplantation has a rationale in replacing the damaged RPE after surgical removal of a CNV and can be useful in order to restore better visual acuity. We present preliminary results in 10 eyes with a 1 year follow up.

### **Methods:**

The surgical technique includes a complete pars plana vitrectomy, creation of temporal retinal detachment, 180 degrees peripheral retinotomy, CNV extraction, tailoring of an RPE and choroid patch, transposition of the patch onto the subfoveal area and attachment of the patch with perfluorocarbon liquid (PFCL) into the subretinal space, aspiration of PFCL, retinal reattachment with preretinal PFCL, peripheral laser, PFCL/silicone oil exchange.

### **Effectiveness / Safety:**

This procedure is technically feasible and allows the reperfusion of the choroidal patch. Some visual improvement was observed in all the cases. The peripheral retinotomy allows an easier approach for the subretinal maneuvers.